

## Sequence Listing

| Name | Sequence                                      |
|------|---|
| 00   | 00U tcgaggatatccgggcttcgggtgaccgggatcttaaga   |
|      | 00L agcttcttaagatccccggtcacccgaagcccggatatcc  |
| 01   | 01U tcgaggatatcccttggcgggtgaggcggcgatcttaaga  |
|      | 01L agcttcttaagatcgccgcctcaccgccaagggatatcc   |
| 02   | 02U tcgaggatatctgtgggctacggggccgcgatcttaaga   |
|      | 02L agcttcttaagatcgcgggccccgtagccacagatatcc   |
| 03   | 03U tcgaggatatctaggtggctgcgcggggcgatcttaaga   |
|      | 03L agcttcttaagatcgccccgcgcagccacctagatatcc   |
| S0   | S0U ttaagcgaagtggcctggcgggcgctagcg            |
|      | S0L aattcgctagcgcccgccaggccacttcgc            |
| S1   | S1U ttaagaacccgagccccggacgggctagcg            |
|      | S1L aattcgctagcccgctccggggctcgggttc           |
| S2   | S2U ttaagcgcaccaggcagagcgcggttagcg            |
|      | S2L aattcgctagccgcgctctgcctggtgcgc            |
| S3   | S3U ttaagtcctcgtggctggggcggttagcg             |
|      | S3L aattcgctagcgcccgccgaccacgaggac            |
| E0   | E0U gatccccatggaatcccttggcgggtgaggcggcgatatct |
|      | E0L ctagagatatcgccgcctcaccgccaagggattccatggg  |
| E1   | E1U gatccccatggaatctgtgggctacggggccgcgatctct  |
|      | E1L ctagagatatcgcgccccgtagccacagattccatggg    |
| E2   | E2U gatccccatggaatctaggtggctgcgcggggcgatatct  |
|      | E2L ctagagatatcgccccgcgcagccacctagattccatggg  |
| E3   | E3U gatccccatggaatccgcaagccccaaggccccgatctct  |
|      | E3L ctagagatatcggggccttggggccttgcggttccatggg  |
| X0   | X0U ctagcgatatgccctgtagtttgagc                |
|      | X0L catggctccaaactacagggcatacg                |
| X1   | X1U ctagcgtaaagccaactgtaccctgc                |
|      | X1L catggcaggggtacagttggctttacg               |
| X2   | X2U ctagcgagactaaggttgttggtcgc                |
|      | X2L catggcgaccaacaaccttagtctcg                |
| X3   | X3U ctagcgttccttcaagtcactcgtcc                |
|      | X3L catgggacgagtgacttgaaggaaacg               |
| X4   | X4U ctagccctgcccacagtagaataagc                |
|      | X4L catggcttattctactgtgggcaggc                |
| X5   | X5U ctagcgaatcaagactcgtgctaccc                |
|      | X5L catggggtagcacgagtccttgattcg               |
| X6   | X6U ctagcgatgacagttagacgcttccc                |
|      | X6L catggggaagcgtctaactgtcatcg                |
| X7   | X7U ctagcctcctgaacctaaagtcacgc                |
|      | X7L catggcgatgacttaggttcaggagg                |
| X8   | X8U ctagcccaaagttacagacctcagcc                |
|      | X8L catgggctgaggtctgtaactttggg                |

|     |      |                            |
|-----|------|----------------------------|
| X9  | X9U  | ctagcgacctatgcaatctactcgcc |
|     | X9L  | catgggcgagtagattgcataggtcg |
| X10 | X10U | ctagccagtagtaatcttcgcaggc  |
|     | X10L | catggcctgcggaagattactactgg |
| X11 | X11U | ctagcctgttggtgggtactcctaac |
|     | X11L | catggttaggagtaccaccaacagg  |
| X12 | X12U | ctagcaacgaggtggtacgacatagc |
|     | X12L | catggctatgtcgtaccacctcgttg |
| X13 | X13U | ctagccgcagtcattatagagagccc |
|     | X13L | catggggctctctataatgactgcg  |
| X14 | X14U | ctagcgtacttgtccctccagcatac |
|     | X14L | catggtatgctggagggacaagtacg |
| X15 | X15U | ctagcatcctgtgtgcctaagtacgc |
|     | X15L | catggcgacttaggcacacaggatg  |
| X16 | X16U | ctagcgaggcacttgacgtatgactc |
|     | X16L | catggagtcatacgtcaagtgcctcg |
| X17 | X17U | ctagcgggatacctttctaagcgacc |
|     | X17L | catgggtcgcttagaaaggatatccg |
| X18 | X18U | ctagcggataggtcgcagtcctgtac |
|     | X18L | catggtacaagactgcgacctatccg |
| X19 | X19U | ctagcgtacagtgcgaagagggtaac |
|     | X19L | catggttaccctcttcgcactgtacg |
| X20 | X20U | ctagcgcctccgacacagttactaac |
|     | X20L | catggttagtaactgtgtcggaggcg |
| X21 | X21U | ctagcgtgggtctggaacactattgc |
|     | X21L | catggcaatagtgttccagaccacg  |
| X22 | X22U | ctagcaactcctcactgttcactgcc |
|     | X22L | catgggcagtgaacagtgaggagttg |
| X23 | X23U | ctagccgtatggtatatcgtcagccc |
|     | X23L | catggggctgacgatataccatacgg |
| X24 | X24U | ctagcgcacagaccaaggacattacc |
|     | X24L | catgggtaatgtccttggtctgtgcg |
| X25 | X25U | ctagcctcccactaaacggtcctatc |
|     | X25L | catggataggaccgtttagtgggagg |
| X26 | X26U | ctagccacggaccgagtatctattgc |
|     | X26L | catggcaatagatactcggcccgtag |
| X27 | X27U | ctagcgtctgatgagcgcagttagtc |
|     | X27L | catggactaactgcgctcatcagacg |
| X28 | X28U | ctagcgagaatgcggtgatagtacc  |
|     | X28L | catgggtcactatcaccgcattctcg |
| X29 | X29U | ctagcctacactaaccgacggaatgc |
|     | X29L | catggcattccgtaggttagtgtagg |
| X30 | X30U | ctagcaagtccttggtacgagtcgcc |
|     | X30L | catgggggactcgtaacaaggacttg |

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|-----|------|------------------------------|
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|     | X31L | catgggacttcccgttaacttcagggtg |
| X32 | X32U | ctagcaacaggttccttacagagggc   |
|     | X32L | catggccctctgtaaggaacctgttg   |
| X33 | X33U | ctagcacgtagccaagacttatcccc   |
|     | X33L | catgggggataagtcttggctacgtg   |
| X34 | X34U | ctagccagtcagggtctattgttgccc  |
|     | X34L | catgggggcaacaatagacctgactgg  |
| X35 | X35U | ctagcgagaaccatattgcccctacc   |
|     | X35L | catgggtaggggcaatatggttctcg   |
| X36 | X36U | ctagccataaagaggagactgggctc   |
|     | X36L | catggagcccagtcctccttttatgg   |
| X37 | X37U | ctagccatagtctgcgaataactgccc  |
|     | X37L | catggggcagttatcgcagactatgg   |
| X38 | X38U | ctagcgttagggcagccttaggtaac   |
|     | X38L | catggttacctaaggctgccctaacg   |
| X39 | X39U | ctagcatagatgtgacagtgggacgc   |
|     | X39L | catggcgtcccactgtcacatctatg   |
| X40 | X40U | ctagcgattagagttgtagggcgctc   |
|     | X40L | catggagcgccctacaactctaatacg  |
| X41 | X41U | ctagctggaagtacgtgtgggtagc    |
|     | X41L | catggctatcccacacgtacttccag   |
| X42 | X42U | ctagctgagatagtcgtggatgggtcc  |
|     | X42L | catgggaccatccacgactatctcag   |
| X43 | X43U | ctagcacgacctgttacggttacctc   |
|     | X43L | catggaggtaacggtaacaggtcgtg   |
| X44 | X44U | ctagccattgctggaactgctactcc   |
|     | X44L | catgggagtagcagttccagcaatgg   |
| X45 | X45U | ctagcgtacccccacccacataaagtc  |
|     | X45L | catggactttatgtgggtggggtacg   |
| X46 | X46U | ctagcagtgtaggaatacccggtgctc  |
|     | X46L | catggagcacgggtattcctacactg   |
| X47 | X47U | ctagccgttcgctatgttctacagcc   |
|     | X47L | catgggctgtagaacatagcgaacgg   |
| X48 | X48U | ctagccccctgtccccatacattactc  |
|     | X48L | catggagtaatgtatggggacagggg   |
| X49 | X49U | ctagcatgtaggcaactgtcgtcacc   |
|     | X49L | catgggtgacgacagttgcctacatg   |
| X50 | X50U | ctagcgtatgttcccagcgagtacac   |
|     | X50L | catggtgtactcgctgggaacatacg   |
| X51 | X51U | ctagcgtgtaataccacgggtgttgc   |
|     | X51L | catggcaacaccggtggtattacacg   |
| X52 | X52U | ctagctgtagtggtctttacgtggcc   |
|     | X52L | catggggccacgtaaagaccactacag  |

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| X53 | X53U | ctagcgtcaggtgctcatccagttac  |
|     | X53L | catggtaactggatgagcacctgacg  |
| X54 | X54U | ctagcctccacaaacatacccacacc  |
|     | X54L | catgggtgtgggtatgtttgtggagg  |
| X55 | X55U | ctagctgaggtgtcaatgagagaggc  |
|     | X55L | catggcctctctcattgacacctcag  |
| X56 | X56U | ctagctcactcctctacgatgaacgc  |
|     | X56L | catggcgttcatcgtagaggagtgag  |
| X57 | X57U | ctagctcgtactgagatgttcctgcc  |
|     | X57L | catgggcaggaacatctcagtacgag  |
| X58 | X58U | ctagctgactctggacttatgacgcc  |
|     | X58L | catgggcgtcataagtccagagtcag  |
| X59 | X59U | ctagcagattacggagtgtgttcccc  |
|     | X59L | catgggggaacacactccgtaatctg  |
| X60 | X60U | ctagccttaccactgttgacagaggac |
|     | X60L | catggtcctctgcaacagtggttaagg |
| X61 | X61U | ctagcccgttatccgtactggaagtc  |
|     | X61L | catggacttccagtacggataacggg  |
| X62 | X62U | ctagcgtttgggtatcggtgtactc   |
|     | X62L | catggagtacagccgatacccaaacg  |
| X63 | X63U | ctagcgaggatgaacacaaggaggtc  |
|     | X63L | catggacctccttgtgttcacctcg   |
| X64 | X64U | ctagccatagcggatagggttacgtc  |
|     | X64L | catggacgtaaccctatccgctatgg  |
| X65 | X65U | ctagctctcatatccctaacctggcc  |
|     | X65L | catgggccaggttagggatatgagag  |
| X66 | X66U | ctagcgggtattgtctcgtcatgcacc |
|     | X66L | catgggtgcatgacgagacaataaccg |
| X67 | X67U | ctagcatcacctacctgagattgccc  |
|     | X67L | catggggcaatctcaggtaggtgatg  |
| X68 | X68U | ctagcgactggggtctgttgtttctc  |
|     | X68L | catggagaaacaacagaccccagtcg  |
| X69 | X69U | ctagcaggggtcggagttagagaatc  |
|     | X69L | catggattctctaactccgaccttg   |
| X70 | X70U | ctagcaccgaaggatgttgagtctcc  |
|     | X70L | catgggagactcaacatccttcggtg  |
| X71 | X71U | ctagcggtgatgactcggaacttctc  |
|     | X71L | catggagaagttccgagtcacaccg   |
| X72 | X72U | ctagcgggtacacaaatggaagggtcc |
|     | X72L | catgggaccttccatttgtgtaccgg  |
| X73 | X73U | ctagcatcatctcgggtctacttcgc  |
|     | X73L | catggcgaagtagacccgagatgatg  |
| X74 | X74U | ctagcaatcagtagacatcgccctcc  |
|     | X74L | catgggagggcgatgtctactgattg  |

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|-----|------|------------------------------|
| X75 | X75U | ctagccacggaagtctattcacacgc   |
|     | X75L | catggcgtgtgaatagacttccgtgg   |
| X76 | X76U | ctagcaggggctgttacatgaagagc   |
|     | X76L | catggctcttcatgtaacagcccctg   |
| X77 | X77U | ctagccgtgacctgctgtgatttacc   |
|     | X77L | catgggtaaatcacagcaggtcacgg   |
| X78 | X78U | ctagcatagtcttagtccggcatcgc   |
|     | X78L | catggcgatgccggactaagactatg   |
| X79 | X79U | ctagcatcactacctgcctattcgcc   |
|     | X79L | catgggcgaataggcaggtagtgtg    |
| X80 | X80U | ctagcttaccttgtctaaccctcgcc   |
|     | X80L | catgggcgagggtagacaaggtaag    |
| X81 | X81U | ctagctcttaatccctctggctgacc   |
|     | X81L | catgggtcagccagagggattaagag   |
| X82 | X82U | ctagcagacccatccgagtaccatac   |
|     | X82L | catggatatggtactcggtgggtctg   |
| X83 | X83U | ctagcagactgaaccctcaagatgcc   |
|     | X83L | catgggcacatcttgagggttcagtctg |
| X84 | X84U | ctagcaggcattctgatactcctcgc   |
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| X85 | X85U | ctagcctgcaagagtcatatcacggc   |
|     | X85L | catggccgtgatatgactcttgagg    |
| X86 | X86U | ctagcgtgggatttcgtctataccgc   |
|     | X86L | catggcggtatagacgaaatcccacg   |
| X87 | X87U | ctagccagaccgcctcctaattctac   |
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| X88 | X88U | ctagcatctccttgcttgtaacctgc   |
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| X90 | X90U | ctagcagtgctcctaagcaaagacggc  |
|     | X90L | catggccgtctttgcttaggacactg   |
| X91 | X91U | ctagcttcccttctaccctgtaccac   |
|     | X91L | catggtggtacagggtagaagggaag   |
| X92 | X92U | ctagcaagggtgtccagtggtcagatc  |
|     | X92L | catggatctgaccactggacaccttg   |
| X93 | X93U | ctagcatcagcatagggaccacactc   |
|     | X93L | catggagtgtggtccctatgctgatg   |
| X94 | X94U | ctagcggacggccaactatcataagc   |
|     | X94L | catggcttatgatagttggccgtccg   |
| X95 | X95U | ctagctgaacctctgtgctgtaggac   |
|     | X95L | catggtcctacagcacagaggttcag   |
| X96 | X96U | ctagctgacttcacctggctgtctac   |
|     | X96L | catggtagacagccaggtgaagtcag   |

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|------|-------|-----------------------------|
| X97  | X97U  | ctagctcctaactctattgccgagcc  |
|      | X97L  | catgggctcggcaatagagttaggag  |
| X98  | X98U  | ctagccttatcctacgcgagcagatc  |
|      | X98L  | catggatctgctcgcgtaggataagg  |
| X99  | X99U  | ctagccgcataagcacatctgtagcc  |
|      | X99L  | catgggctacagatgtgcttatgcgg  |
| X100 | X100U | ctagcaacgtagagaacgaagccagc  |
|      | X100L | catggctggcttcgttctctacgttg  |
| X101 | X101U | ctagctcacggagtcctgatgtatgc  |
|      | X101L | catggcatacatcaggactccgtgag  |
| X102 | X102U | ctagcatgtatcccgttggtgtaggc  |
|      | X102L | catggcctacaccaacgggatacatg  |
| X103 | X103U | ctagcgcctgactatTTTgacggTcc  |
|      | X103L | catgggaccgtcaaaatagtcaggcg  |
| X104 | X104U | ctagcgatagcacttcaaacgtcccc  |
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| X105 | X105U | ctagcgaagtgcattcttaccgtccc  |
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| X106 | X106U | ctagcccttgTcgTTctaaactgggc  |
|      | X106L | catggcccagTTTtagaacgacaagg  |
| X107 | X107U | ctagcgTTTaaggagtgttcgtccgc  |
|      | X107L | catggcggacgaacactccttaaacg  |
| X108 | X108U | ctagccagagtTaaagttgccccacc  |
|      | X108L | catgggtggggcaactTTaactctgg  |
| X109 | X109U | ctagcgtcagaatcaatctcctggcc  |
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|      | X115L | catgggacagcctgaacttattgccg  |
| X116 | X116U | ctagcaagggagcagacagtcagtgc  |
|      | X116L | catggacatgactgtctgctcccttg  |
| X117 | X117U | ctagccataacacacgggacaacacc  |
|      | X117L | catgggtgttgTcccgTgtgttatgg  |
| X118 | X118U | ctagccagaaacgaaggtcctaacgc  |
|      | X118L | catggcgTtaggaccttcgtttctgg  |

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|------|-------|-----------------------------|
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|      | X120L | catggacctgatacatcctcatccgg  |
| X121 | X121U | ctagccgtggcggttaaactcttaggc |
|      | X121L | catggcctaagagtttaacgccacgg  |
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| X123 | X123U | ctagcatcagagtgagagcacgac    |
|      | X123L | catggatcgtgctctccactctgatg  |
| X124 | X124U | ctagcgcacaggaaatagaagtcgcc  |
|      | X124L | catgggcgacttctatttcctgtgcg  |
| X125 | X125U | ctagcccacccgactacagaacaatc  |
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| X126 | X126U | ctagccgagattaccagttgtggtc   |
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| X127 | X127U | ctagccgagttaatagacgcggaagc  |
|      | X127L | catggcttcgcgctctattaactcgg  |
| X128 | X128U | ctagccgctgcggtttctctattacc  |
|      | X128L | catgggtaatagagaaaccgcagcgg  |
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|      | X134L | catggcctggagttgtgaccaatctg  |
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|      | X135L | catggaccttctccaaccttctggtg  |
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| X137 | X137U | ctagcgcgtcgggacttacaagatac  |
|      | X137L | catggtatcttgtaagtcccgcgcg   |
| X138 | X138U | ctagcaggatggtgcaagcatactcc  |
|      | X138L | catgggagtatgcttgaccatcctg   |
| X139 | X139U | ctagcggacaaaactgctggttcctac |
|      | X139L | catggtaggaaccagcagtttgtccg  |
| X140 | X140U | ctagcggttgcctcaaactggagtac  |
|      | X140L | catggtactccagtttgaggcaaccg  |

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|------|-------|-----------------------------|
| X141 | X141U | ctagctttgtaagacaccccagagcc  |
|      | X141L | catgggctctggggtgtcttacaaag  |
| X142 | X142U | ctagccccctttggctgtagtgctac  |
|      | X142L | catggtagcactaacgaccaaagggg  |
| X143 | X143U | ctagcagagggctgagggatagaaac  |
|      | X143L | catggtttctatccctcagccctctg  |
| X144 | X144U | ctagcagttcgtagctttgacacgcc  |
|      | X144L | catgggctgtgtcaaaggtaggaactg |
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|      | X145L | catgggggtggtatcactgcaaactg  |
| X146 | X146U | ctagcgagtgtagaatccggctgaac  |
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| X147 | X147U | ctagcgcaagtccgtgttcctcttac  |
|      | X147L | catggtaagaggaacacggacttgcg  |
| X148 | X148U | ctagcctttgtacgggtggtgaaaccc |
|      | X148L | catgggggtttcaccaccgtacaaagg |
| X149 | X149U | ctagcactttcatgtggagacgctcc  |
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